

**Boston University Marine Program
Marine Semester 2012**

ES543 Estuaries and Nearshore Systems

An Analysis of the Sedimentary Facies of Plum Island Sound, MA
Evidence of Channel Migration

Karissa Parker, Tori Pinheiro, Mikayla Thistle

Salt Marsh Channel Nutrient Enrichment and Erosion

Jack Spangler, Kyle Woehrlé, Kristin Yoshimura, Sarah Zollner

Dune Morphology and Vegetation on Crane Beach, MA

Danielle Chudolij, Susannah Haskins, Katie Jalette, Sierra Sarkis

Erosion and Changing Vegetation Boundaries in Plum Island Sound, MA

Cassandra Smith, Jillian Hayward, Nicoletta Leonardí

Comparison of Measured and Modeled Erosion in Plum Island Sound, MA

Kasey Aderhold, Rahul Madan, Philip Souza

BI550 Marine Genomics

Variations in the Structure of NF- κ B - A Key Stress Response Protein in the
Cnidaria

Lukas Defilippo and Allison Lorenc

Using Next Generation Sequencing to Monitor Photosynthetic and Symbiotic Genes
as Markers for Coral Health

Derek Scolaro and Arianna Medina

Assessing the Diversity of Cnidarian Fluorescent Proteins Using Next Generation
Sequencing

Jessie Mathews and Kimberly Wong

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Putative Toxin Proteins in the Lined Sea Anemone *Edwardsiella Lineata*

Lydia Glenn and Zack Lepore

Does Tentacle Gene Expression Explain the Novel Life Cycle of the Parasitic Sea
Anemone *Edwardsiella Lineata*

Venus Fung and Caitlin Russell

BI/GE523 Marine Urban Ecology

The Composition of Runoff Water in Historic Boston

Sierra Sarkis and Sarah Guitart

The Effects of Litter and Goose Feces Pollution on the Charles River

Danielle Chudolij, Katie Jalette, Allison Lorenc

Locked In or Locked Out: Trapped Either Way

Susannah Haskins

The effects of urban green space on Boston's rivers

Justin Maillet and Diana Acosta

How Urbanization Impacts Salt Marshes: A Comparative Study Between Belle Isle
Marsh and Rowley Marsh

Karissa Parker, Emily Starnes, Kimberly Wong

Investigation correlations between terrestrial development and marine organism
diversity and abundance in the Boston Seaport District

Blyss Buitrago and Megan Ware

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ES557 Oceanography of Stellwagen Bank

Water Mass Transport Across Stellwagen Bank
National Marine Sanctuary

Jillian Hayward, Victoria Pinheiro, Cassandra Smith, Rick Murray

Stellwagen Bank A01 Buoy: Physical and Chemical Parameters

Kirsten Krock, Nicoletta Leonardi, Caitlin Russell

Investigating the Abundance of Three Macronutrients Within
the Stellwagen Bank National Marine Sanctuary

Lukas Defilippo, Philip Souza, Kristin Yoshimura, Sarah Zollner

BI/GE578 Marine Geographic Information Science

Modeling harmful anthropogenic impacts on sea turtle nesting beaches in Florida

Caitlin Grelotti

Using ArcGIS to Determine Most Suitable fish Pond (Loko i`a) Habitat on Oahu, Hawaii

Hedee Kim

Theoretical Impact of global warming on green sea turtle (*Chelonia mydas*) sex
determination

Kyle Woehrle and Jack Spangler

Assessing large vessel acoustic emission intensity in the Gulf of Maine: an
estimation of right whale agitation caused by anthropogenic noise emission

Jessica Alexandria

Creating a Habitat Sanctuary on the Massachusetts Coast for *Ostrea edulis*, the
European Oyster

Karissa Parker

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The Spatial Analysis of Lionfish, *Pterois volitans*, in the Florida Keys Region

Samantha Andrews and Corinne Burns

Effects of Increased Developed Land Cover on Nutrient Loads in Rivers
Surrounding the Puget Sound

Sarah Guitart

A Comparative Study of Boston Harbor Water Quality from 1995 to 2010: A True
Environmental Success Story

Sierra Sarkis

BI546 Marine Megafaunal Ecology

Understanding the Large-Scale Movements of Humpback Whales and Leatherback
Turtles

Blyss Buitrago, Kirsten Krock, and Megan Ware

Distribution and Stomach Content of Groundfish in the Southern Portion of the
Stellwagen Bank National Marine Sanctuary

Samantha Andrews, Corinne Burns and Hedee Kim

Effects of Sediment Type on Distribution and Abundance of Seabirds with the
Stellwagen Bank National Marine Sanctuary

Caitlin Grelotti, Sarah Guitart, and Emily Starnes

Fine-Scale Behaviors of Humpback Whales in Relation to Plankton Abundance and
Sighting Locations in Stellwagen Bank National Marine Sanctuary

Winnie Hsieh, Diana Acosta, and Trevor Etheridge

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Abundance of *Calanus Finmarchicus* in Stellwagen Bank National Marine

Sanctuary: A Tool for Megafauna Conservation

Jessica Alexandria, Justin Maillet, and Christina Teng

BI539 Coral Reef Dynamics

Habitat Shift of the Threespot Damselfish *Stegastes planifrons*: A Model for Coral

Reef Health and Distribution

Winnie Hsieh

Investigating the Taphonomy of Coral Reefs, Seagrass
Beds and Mangrove Communities of Calabash Caye, Belize

Blyss Buitrago

Effects of Shading and Flow on Interspecific Scleractinian Coral Competition

Christina K. Teng

Interspecific Spatial Competition Between Scleractinian Corals and Certain

Anthozoans

Rahul Madan

Coral Habitat Preference Manipulation and Age and Gender Caused Territorial

Behavior of the Threespot Damselfish, *Stegastes planifrons*

Sarah Zollner

Contrasting Functional Roles of Herbivorous Surgeonfish Species on Coral Reefs

Lukas DeFilippo

The influence of life phases on Caribbean parrotfish algal preference

Venus Fung

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Functional characterization of grazing by two Caribbean parrotfishes, *Sparisoma viride* and *Sparisoma aurofrenatum*

Lydia Glenn

Bite Frequencies of Parrotfish Based on Average Species Size

Susannah Haskins

An Observational Study Regarding Coral Reef Fish Population Dynamics as Indicators of Habitat Connectivity Among Coral Reefs, Mangroves, and Seagrass Beds

Kimberly Wong

Analyzing the Relationship Between Coral Reef Rugosity and Fish Biodiversity in Calabash Caye, Belize

Kirsten Krock

Dominant species of the Belizean Reef: Competitive interactions between scleractinia, gorgonians, and sponges on Calabash Caye, Belize

Justin Maillet

A gradient in species richness of chlorophyta and rhodophyta epibionts on prop roots of the red mangrove, *Rhizophora mangle*

Mikayla Thistle

Species richness variances of sponges and tunicates in *Rhizophora mangle* roots of different habitats at Calabash Caye, Belize

Jillian Hayward

A Coral Health Index Assessment of Belizean Reef Ecosystems at Calabash Caye

Jessie Mathews

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An Analysis of the Physiochemical Properties of Three Different Mangrove
Communities in Calabash Caye, Belize.

Victoria Pinheiro

Find Your Inner CHI: an Analysis of Fish Coral Health Index Scores as a Function
of Reef Habitat at Calabash Caye, Belize

Caitlin Russell

Investigating the Role of Ecological Stress in the Distribution and Abundance of
Littorina angulifera in the Mangrove Forests of Calabash Caye, Belize

Megan Ware

Effects of sedimentation on interspecific competitive interactions by scleractinian
corals in Turneffe Atoll, Belize

Emily Starnes

The Functional Diversity of Herbivores in Coral Reefs

Katie Jalette

BI569 Tropical Marine Invertebrates

Mangrove Sponge Identification and Abundance

Caitlin Grelottie, Karissa Parker, Jack Spangler, and Kyle Woerhle

Assessing the Coral Health of Two Belizian Backreefs

Allison Lorenc, Arianna Medina, Daniella Chudolij, & Philip Souza

Larval Recruitment Distribution

Samantha Andrews, Corinne Burns, Hedee Kim, and Derek Scolaro